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4, 7TH MAIN MALLESWARAM, BANGALORE -3

TEST RESULTES FOR MS BLOCK PIPE

Lab ID	: CP-2017-02-22-01	**Date:**	24-02-17
Customer	: Assistant Executive Engineer, Yelahanka zone project division, BBMP, Bangalore		
Address	: Yelahanka zone project division, BBMP, Bangalore		
Project Name	: Providing structural roof covering(By space frames) over gallery to Hoysala Play Ground behind Yelahanka New Town Bus Stand in ward No.04		
Agency	: Sri H.V. ONKARAPPA		
Sourse of Sample	: Sample supplied by Agency		
Sample Condition	: Satisfactory		
Date of Receipt	: 22-02-17		
Sample ID No	: 2017-02-22-01-03		
Type of Sample	: MS block pipe for chain link fencing		
Reference to BIS codes	: IS 2062: 2011		
Date of testing	: 23-02-17		

TESTS RESULTS FOR MS BLOCK PIPE 38MM DIA, 14 GAUGE

SL.NO	Description	Result	Required as per as IS Code 2062: 2011	Remarks
1	**Yeild Stress**	286 N/mm^2	250N/mm^2	Satisfactory
2	**Tensile Strength**	469 N/mm^2	410N/mm^2	Satisfactory
3	**Elongation Percentage**	25%	Min 23%	Satisfactory

Note:
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Samples will be disposed after 30 days from the date of issue of test certificate

Prepared by
Harshitha

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

M : 8861262858 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST RESULTES FOR MS RECTANGULAR POLE

Lab ID	:	CP-2017-02-22-01	**Date:** 24-02-17
Customer	:	Assistant Executive Engineer, Yelahanka zone project division, BBMP, Bangalore	
Address	:	Yelahanka Yelahanka zone project division, BBMP, Bangalore	
Project Name	:	Providing structural roof covering(By space frames) over gallery to Hoysala Play Ground behind Yelahanka New Town Bus Stand in ward No.04	
Agency	:	Sri H.V. ONKARAPPA	
Sourse of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	22-02-17	
Sample ID No	:	2017-02-22-01-04	
Type of Sample	:	MS rectangular pole for chain link fencing	
Reference to BIS codes	:	IS 2062: 2011	
Date of testing	:	23-02-17	

TESTS RESULTS FOR M.S RECTANGULAR POLES MADE OUT OF 2 EQUAL ANGLES OF 65 X 65 X 6 MM WELDED TOGETHER

SL.NO	Description	Result	Required as per IS Code 2062:2011	Remarks
1	**Weight/Meter**	5.82 Kg /m	5.8 Kg/m	Satisfactory
2	**Yeild stress**	269N/mm^2	250N/mm^2	Satisfactory
3	**Tensile Strength**	445N/mm^2	410N/mm^2	Satisfactory
4	**Elongation Percentage**	24%	Min23%	Satisfactory

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Harshitha

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

M : 8861262858 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST RESULTS FOR WIRE MESH

Lab ID	:	CP-2017-02-22-01	**Date:**	24-02-17
Customer	:	Assistant Executive Engineer, Yelahanka zone project division, BBMP, Bangalore		
Address	:	Yelahanka zone project division, BBMP, Bangalore		
Project Name	:	Providing structural roof covering(By space frames) over gallery to Hoysala Play Ground behind Yelahanka New Town Bus Stand in ward No.04		
Agency	:	Sri H.V. ONKARAPPA		
Sourse of Sample	:	Sample supplied by Agency		
Sample Condition	:	Satisfactory		
Date of Receipt	:	22-02-17		
Sample ID No	:	2017-02-22-01-05		
Type of Sample	:	Chain link fencing		
Technical Reference	:	IS 2721:2003		
Date of testing	:	23-02-17		

TESTS RESULT FOR WIRE MESH		
SL.NO	**Description**	**Result**
1	**Average Thickness :**	4.03mm
2	**Bend Test**	Satisfactory

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Prepared by
Harshitha

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FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

M : 8861262858 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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4, 7TH MAIN MALLESWARAM, BANGALORE -3
Certificate No.: T- 4358

TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2017-02-22-01** **Date:** 28-02-17

Customer : Assistant Executive Engineer, Yelahanka zone project division, BBMP, Bangalore

Address : Yelahanka zone project division, BBMP, Bangalore

Project Name : Providing structural roof covering(By space frames) over gallery to Hoysala Play Ground behind Yelahanka New Town Bus Stand in ward No.04

Agency Sri H.V. ONKARAPPA

Source of Sample : Sample supplied by the customer

Sample Condition : Satisfactory

Date of Receipt : 22-02-17

Sample ID No : 2017-02-22-01-02

Sample Type : Fine Aggregates

Reference to BIS codes : IS: 383 - 1970 (RA2016) (Specification for Coarse and fine Aggregates from natural sources for concrete
IS: 2386 :1963(Part - 1, 2, 3) RA2011
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 2: Estimation of Deleterious Materials and Organic Impurities.
IS 2386 Part 3: Specific gravity, Density, Voids,Water Abservation

Date of test : 23-02-17

Total weight taken: 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:1970			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0	100	100	100	100	100
2	4.75 mm	41	41	4.1	95.9	90-100	90-100	90-100	95-100
3	2.36 mm	43	84	8.4	91.6	60-95	75-100	85-100	95-100
4	1.18 mm	60	144	14.4	85.6	30-70	55-90	75-100	90-100
5	600 micron	124	268	26.8	73.2	15-34	35-59	60-79	80-100
6	300 micron	425	693	69.3	30.7	5-20	8-30	12-40	15-50
7	150 micron	270	963	96.3	3.7	0-10	0-10	0-10	0-15
8	Pan	37	1000	100	0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone III

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

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TEST REPORT OF FINE AGGREGATE

Date: 28-02-17

Lab ID : **CP-2017-02-22-01**

Sample ID No : 2017-02-22-01-02

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-1970 (RA2016)
1	Water Absorption(%)	3.06%	–
2	Specific Gravity	2.5	–
3	Material finer than 75 micron	6.1	Not more than 15 percent

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Samples will be disposed after 90 days from the date of issue of test certificate

Prepared by
Harshitha

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

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Certificate No.: T- 4358

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	CP-2017-02-22-01 **Date:23-03-2017**
Customer	:	Assistant Executive Engineer, Yelahanka zone project division, BBMP, Bangalor
Address	:	Yelahanka zone project division, BBMP, Bangalore
Project Name	:	Providing structural roof covering(By space frames) over gallery to Hoysala Play Ground behind Yelahanka New Town Bus Stand in ward No.04
Agency		Sri H.V. ONKARAPPA
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	22-02-17
Sample ID No	:	2017-02-22-01-01
Sample Type	:	Birla Super 53 grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	22-02-2017 to 22-03-2017

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving	3.85	–
2	Finess by Air permeablity method	284.5m2/kg, Min	225m^2/kg, Min
3	Density	3.5gm/cc	gm/cc
4	Specific Gravity	3.19	–
5	Standard Consistency	28.5%	Not specified
6	Initial Setting time	275 minutes	Not less than 30 minutes

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

CIVIL Pro Sig..... Date..... BANGALORE

M : 8861262858 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Date:23-03-2017

Lab ID : CP-2017-02-22-01

Sample ID No : 2017-02-22-01-01

7	Final Setting time	325 minutes	Not more than 600 minutes
8	Soundness (Le Chatelier's Method)	1mm	Not more than 10 mm
9	Compressive Strength		
	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
	28 Days	55.5N/mm^2	Not less than 53 N/mm^2

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FOR CIVIL Pro.

R KARTHIK RECHAN
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Quality Manager

****End of Report****

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore